



SEQUENCE LISTING

a1
<110> MUKHERJEE,, RAMA
PRASAD, SUDHANAND
BURMAN, ANAND C

<120> NOVEL PEPTIDE ANALOGS FOR THE TREATMENT OF CANCER

<130> u0121042

<140> 09/248,382

<141> 1999-02-11

<150> 343/DEL/98

<151> 1998-02-11

<160> 29

<170> PatentIn Ver. 2.0

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated.

<220>

<221> MOD_RES

<222> (2)

<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 1

Leu Met Tyr Pro Thr Tyr Leu Lys

1

8

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (2)

<223> /product = 2-amino-isobutyric acid / label = Aib

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<400> 2

Xaa Met Tyr Pro Thr Tyr Xaa Lys

1

5

<210> 3

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (3)

<223> / product = D-leucine/ label = D-Leu

<220>

<221> MOD_RES

<222> (3)

<223> / product = 2-amino-isobutyric acid/ label = Aib

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<400> 3

Xaa Met Tyr Pro Thr Tyr Xaa Lys

1

5

<210> 4

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (4)

<223> /product = D-tyrosine/ label = D-Tyr

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<400> 4
Leu Met Tyr Pro Thr Xaa Leu Lys
1 5

al. Conf.
<210> 5
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (5)
<223> /product = D-leucine/label = D-Leu

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<400> 5
Leu Met Tyr Pro Thr Tyr Xaa Lys
1 5

<210> 6
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (6)
<223> /product = D-tyrosine/label = D-Tyr

<220>
<221> MOD_RES
<222> (6)
<223> /product = D-leucine/label = D-Leu

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<400> 6
Leu Met Xaa Pro Thr Tyr Xaa Lys
1 5

<210> 7
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (7)
<223> /product = D-leucine/label = D-Leu

<220>
<221> MOD_RES
<222> (7)
<223> /product = D-leucine/label = D-Leu

<400> 7
Xaa Met Tyr Pro Thr Tyr Xaa Lys
1 5

<210> 8
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = 2-amino-isobutyric acid/ label = Aib

<220>
<221> MOD_RES
<222> (7)
<223> /product = cyclic and acyclic dialkylated
glycine/label = Dxx

<400> 8
Xaa Met Tyr Pro Thr Tyr Xaa Lys
1 5

<210> 9
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-leucine/label = D-Leu

<220>
<221> MOD_RES
<222> (7)
<223> /product = cyclic and acyclic dialkylated glycine/
label = Dxg

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<400> 9
Xaa Met Tyr Pro Thr Tyr Xaa Lys
1 5

<210> 10
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-phenylalanine/label = D-Phe

<220>
<221> MOD_RES
<222> (8)
<223> /product = Leucine N-ethylamide/label = Leu-NHet

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<400> 10
Xaa Gln Trp Ala Val Gly His Xaa
1 5

<210> 11
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-phenylalanine/label = D-Phe

<400> 11
Xaa Gln Trp Ala Val Gly His Leu
1 5

<210> 12
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was syntheically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-phenylalanine/label = D-Phe

<220>
<221> MOD_RES
<222> (6)
<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 12
Xaa Gln Trp Ala Val Xaa His Leu
1 5

<210> 13
<211> 8
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>

<221> MOD_RES

<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

<220>

<221> MOD_RES

<222> (6)

<223> /product=2-amino-isobutyric acid/label = Aib

<400> 13

Xaa Gln Trp Xaa Val Gly His Leu

1

5

<210> 14

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>

<221> MOD_RES

<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

<220>

<221> MOD_RES

<222> (6)

<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 14

Xaa Gln Trp Ala Asx Xaa His Leu

1

5

<210> 15

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>

<221> MOD_RES

<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

<400> 15

Xaa Gln Trp Ala Val Gly His Ile

1

5

<210> 16

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>

<221> MOD_RES

<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

<220>

<221> MOD_RES

<222> (4)

<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 16

Xaa Gln Trp Xaa Val Gly His Ile

1

5

<210> 17

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-phenylalanine/label = D-Phe

<220>
<221> MOD_RES
<222> (6)
<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 17
Xaa Gln Trp Ala Val Xaa His Ile
1 5

<210> 18
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-arginine/label = D-Arg

<220>
<221> MOD_RES
<222> (5)
<223> /product = D-phenylalanine/label = D-Phe

<220>
<221> MOD_RES
<222> (7)
<223> /product = D-tryptophan/label = D-Trp

<220>
<221> MOD_RES
<222> (9)
<223> /product =D-tryptophan/label = D-Trp

<400> 18
Xaa Pro Lys Pro Xaa Gln Xaa Phe Xaa Leu Leu
1 5 10

<210> 19
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = 2-amino-isobutyric acid/label =Aib

<220>
<221> MOD_RES
<222> (6)
<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 19
Xaa Met Gln Trp Phe Xaa
1 5

<210> 20
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = cyclic and acyclic dialkylated
glycine/label = Dxg

<220>
<221> MOD_RES
<222> (6)
<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 20
Xaa Met Gln Trp Phe Xaa

1

5

<210> 21
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-leucine/label = D-Leu

<220>
<221> MOD_RES
<222> (6)
<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 21
Xaa Met Gln Trp Phe Xaa
1 5

<210> 22
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-arginine/label = D-Arg

<220>
<221> MOD_RES
<222> (5)
<223> /product = 2-amino-isobutyric acid/label = Aib

<220>
<221> MOD_RES

```

<222> (7)
<223> /product = D-tryptophan/label = D-Trp

<220>
<221> MOD_RES
<222> (9)
<223> /product = D-tryptophan/ label = D-Trp

<220>
<221> MOD_RES
<222> (10)
<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 22
Xaa Pro Lys Pro Xaa Gln Xaa Phe Xaa Xaa Leu
  1             5             10

<210> 23
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
      was synthetically generated

<220>
<221> MOD_RES
<222> (3)
<223> /product = 2-amino-isobutyric acid/label = Aib

<220>
<221> MOD_RES
<222> (5)
<223> /product = D-phenylalanine/label = D-Phe

<220>
<221> MOD_RES
<222> (7)
<223> /product = D-tryptophan/label = D-Trp

<220>
<221> MOD_RES
<222> (9)
<223> /product = D-tryptophan/label = D-Trp

<400> 23

```

Arg Pro Xaa Pro Xaa Gln Xaa Phe Xaa Leu Leu
 1 5 10

<210> 24
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: This peptide
 was synthetically generated

<220>
 <221> MOD_RES
 <222> (8)
 <223> /product = D-tryptophan/label = D-Trp

<220>
 <221> MOD_RES
 <222> (3)..(14)
 <223> product - note: disulfide bridges: 3-14

<220>
 <221> MOD_RES
 <222> (14)
 <223> /product =D-cysteine/label= D-Cys

<400> 24
 Ala Gly Cys Lys Asn Phe Phe Xaa Lys Thr Phe Thr Ser Xaa
 1 5 10

<210> 25
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: This peptide
 was synthetically generated

<220>
 <221> MOD_RES
 <222> (2)
 <223> /product = 2-amino-isobutyric acid/label = Aib

<220>

```

<221> MOD_RES
<222> (8)
<223> /product = D-tryptophan/label = D-Trp

<220>
<221> MOD_RES
<222> (13)
<223> /product = D-serine/label = D-Ser

<220>
<221> MOD_RES
<222> (3)..(14)
<223> product - note: disulfide bridges: 3-14

<400> 25
Ala Xaa Cys Lys Asn Phe Phe Xaa Lys Thr Phe Thr Xaa Cys
  1              5              10

<210> 26
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
      was synthetically generated

<220>
<221> MOD_RES
<222> (1)

<220>
<221> MOD_RES
<222> (4)
<223> /product = D-tryptophan/label = D-Trp

<220>
<221> MOD_RES
<222> (5)
<223> /product = Ornithine/label = Orn

<220>
<221> MOD_RES
<222> (7)
<223> /product = Penicillamine/label = Pen

<400> 26

```

Xaa Cys Tyr Xaa Xaa Thr Xaa Thr
1 5

<210> 27
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-phenylalanine/label = D-Phe

<220>
<221> MOD_RES
<222> (4)
<223> /product = D-tryptophan/label = D-Trp

<220>
<221> MOD_RES
<222> (7)
<223> /product = 2-amino-isobutyric acid/label = Aib

<400> 27
Xaa Cys Tyr Xaa Lys Thr Xaa Thr
1 5

<210> 28
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: This peptide
was synthetically generated

<220>
<221> MOD_RES
<222> (1)
<223> /product = D-phenylalanine/label = D-Phe

<220>

<221> MOD_RES
 <222> (9)
 <223> /product = Isoleucine N-ethylamide/label =
 Ile-NHet

 <400> 28
 Xaa Gln Trp Ala Val Gly His Leu Xaa
 1 5

 <210> 29
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: This peptide
 was synthetically generated

 <220>
 <221> MOD_RES
 <222> (1)
 <223> /product = D-phenylalanine/label = D-Phe

 <220>
 <221> METAL
 <222> (3)
 <223> /product = D-tryptophan/label = D-Trp

 <220>
 <221> MOD_RES
 <222> (8)
 <223> /product = Leucine N-ethylamide/label = Leu-NHet

 <400> 29
 Xaa Gln Xaa Ala Val Gly His Xaa
 1 5